of packaged Drinking Water, wherein the limits for Pesticide Residues has been prescribed. Water comprises approximately 88% of most carbonated drinks.

The analysis of the informal samples of carbonated water were collected by the State Governments as per the direction of the Ministry of Health and Family Welfare during August-September, 2006, and were analysed by the Central Food Laboratories for pesticide residues. As per the analysis reports, none of the samples exceeded the permissible limits prescribed for pesticides residues in Packaged Drinking Water.

The Bureau of Indian Standards (BIL) has also set standards for carbonated beverages (IS 2346) which are under review. The BIS standards are, however, voluntary. Under the PFA Rules, 1955, carbonated drinks are not required to be sold under mandatory BIS Certification Mark.

The Ministry of Health and Family. Welfare has constituted a National Expert Committee to guide the Pesticide Residues Sub-Committee in fixation of MRLs of pesticides in carbonated beverages, fruit and vegetable juices and other finished products.

States/UT Governments, who are the implementing authorities under the PFA Act have been advised to ensure regular sampling and testing of soft drinks to ensure that quality standards are maintained.

Vaccine for Dengue and Chikungunya

†*146. SHRIMATI MAYA SINGH: SHRISURENDRALATH:

Will the Minister of HEALTH AND FAMILY WELFARE be pleased to state:

- (a) whether it is a fact that Dengue and Chikungunya/Malaria is becoming an epidemic in the country; .
- (b) if so, whether Government are going to invent any vaccine for preventing these disease;
 - (c) whether Government have conducted any research in this regard; and

[†] Original notice of the question was received in Hindi.

(d) if so, the present status in this regard?

THE MINISTER OF HEALTH AND FAMILY WELFARE (DR. ANBUMANI RAMDOSS): (a) Dengue and Chikungunya are viral diseases transmitted by vector mosquito Aedes aegypti, while malaria is a parasitic disease and transmitted by Anopheles vector mosquitoes. Dengue and Malaria are endemic and occur every year with the upsurge during the monsoon and post monsoon months when there is a build up of vector mosquito density. Chikungunya fever, on the other hand, has been reported in the country in the year 2006 after a long, period on a wide spread basis, therefore, it is an epidemic outbreak.

State-wise Malaria Cases and Deaths are given in Statement-I (See below).

State-wise Chikungunya Cases and Deaths are given in Statement-Il (See below).

State-wise Dengue Cases and Deaths are given in Statement-Ill (See below).

(b) to (d) At present, there is no vaccine or cure available for alleviation of these diseases.

Information regarding various vaccine trials abroad for Dengue is given in Statement-IV (See below).

There is no vaccine available for prevention of Chikungunya so far.

The National Institute of Malaria Research (NIMR) of Indian Council of Medical Research (ICMR) is conducting research on malaria vaccine at Rourkela, Orissa (initiated in 2002) in collaboration with International Centre for Genetic Engineering and Biotechnology (ICGEB) & Department of Biotechnology (DBT) and with collaboration of ICMR & Centres for Disease Control and Prevention (CDC) Atlanta, at Jabalpur, MP (initiated in 2005). NIMR is generating baseline epidemiological data required for testing the vaccine in population while the ICGEB & CDC are developing the products. The candidates vaccine for trial in Orissa is recombinant peptide against blood stages of *P. falciparum* while the CDC vaccine is also recombinant peptide but against multiple stages of *P. falciparum*.

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Statement-I

State-wise Malaria cases and Deaths since 2003

1	2-	3	4	5	6	7	8	9
Tripura	13807	13	17453		16 18008	2	20 19690	25
Uttaranchal	2350	0	1255	0	1242	0	904	0
Uttar Pradesh	101411	0	87022		0105303		0 33295	0
West Bengal	233802	214 220	0871		184185964	17	75 48772	91
A.N. Islands	753	0	745	1	3954	,0	2046	0
Chandigarh	84	0	199	0	432	0	377	0
D & N Haveli	468	0	787	0	1166	0	1595	0
Daman & Diu	141	0	118	0	104	0	109	0
Delhi	839	0	1316	0	1133	0	427	0
Lakshadweep	6	0	2	0	0	0	0	0
Pondicherry	63	0	43	0	44	0	32	0
ALL INDIA TOTAL	1869403	10061	915363	94	91816342	963	885147	819

^{*}Provisional up to 17.11.2006

State-wise Status of Chikungunya Fever in India, 2006 (up to 28.11.2006)

State	No. of	Totel fever	No.of	No.of	No.of
	districts affected	cases/ Suspected Chikungunya fever cases	samples sent to NIV/NICD	confirmed cases	deaths
1	2	3	4	5	6
Andhra Pradesh	23	77535	1224	248	0
Karnataka	27	762017	4994	298	0
Maharashtra	34	268321	5421	719	0
Tamil Nadu	35	64292	648	116	0
Madhya Pradesh	21	59981	892	70	0
Gujarat	25	74770	1082	185	0

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1	2	3	4	5	6
Kerala	14	69225	235	38	0
A & N Islands	2	4469	0	0	0
GNCT of Delhi	12	514	514	56	0
Rajasthan	1	102	44	24	0
Pondicherry	1	542	52	9	0
Goa	2	287	75	2	0
TOTAL	197	1382055	15181	1765	0

Statement-Ill

SI.	State	20	03	200	4	20	05	2006	
N							(upto28N	lov.)
		С	D	С	D	С	D	C	D
1	2	3	4	5	6	7	8	9	10
1.	Andhra Pradesh	95	5	230	1	99	2	154	17
2.	Chandigarh	0	0	0	0	2	0	168	0
3.	Delhi	2882	35	606	3	1023	9	3302	65
4.	Goa	12	2	3	0	1	0	0	0
5.	Gujarat	249	9	117	4	454	11	503	3
6.	Haryana	95	4	25	0	183	1	450	2
7.	J&K	0	0	0	0	0	0	24	0
8.	Karnataka	1226	7	291	2	587	17	98	7
9.	Kerala	3546	68	686	8	1028	8	880	5
10	Maharashtra	772	45	856	22	349	56	596	20

11 Sikkim

12 Punjab

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1 2	3	4	5	6	7	8	9	10
13. Rajasthan	685	11	207	5	370	5	1224	17
14. Tamil Nadu	1600	8	1027	0	1142	8	328	2
15. Pondicherry	6	0	0	0	0	0	0	0
16 Uttar Pradesh	738	8	8	0	121	4	637	14
17. D&NHaveli	0	0	1	0	0	0	0	0
18. West Bengal	0	0	32	0	6375	34	1021	8
19. Madhya Prade	sh 0	0	0	0	0	0	7	0
TOTAL	12754	215	1153	4	5 11985	157	10510	166

C=Cases, D=Deaths

Statement-IV
Information regarding various vaccine trials abroad for dengue

DevelopersA/accine Candidates	Manufacturers	Stages
Mahidol Univ./liv attenuated, tetravalent Aventis Phase II	Aventis	Phase II Preparing for Phase III
Walter Reed/live attenuated, Tetravalent	Glaxo Smith Kline	Phase f
Acambis/YF-Dengue Chimeric, tetravalent	Acambis/Aventis	Phase I
NIH/5" deletions, Recombinant dengue 4	NIH	Phase I
CDC-Mahidol/ Dengue 2 chimeric	dengue- Aventis	Aventis Monkey Testing

³⁸ Deaths from Dengue confirmed in Delhi & NCR and 27 Suspected Deaths from Dengue reported (7 from Delhi and 20 from others States)-Confirmation report still awaited.

^{(*13} suspected deaths have not been confirmed by the MCD Board, thereby, deleted.)